IN THE CLAIMS

1 (Previously Presented). A method comprising:

blending a photodefinable polybenzoxazole precursor with zirconia particles having a particle size of less than 100 nanometers.

Claims 2 and 3 (Canceled).

- 4 (Previously Presented). The method of claim 1 including blending the photodefinable precursor with zirconia particles having a particle size less than 20 nanometers.
- 5 (Previously Presented). The method of claim 1 including blending the photodefinable precursor with zirconia particles having a particle size of about 13 nanometers.
- 6 (Previously Presented). The method of claim 1 including curing the precursor after blending with zirconia particles.
- 7 (Previously Presented). The method of claim 1 including blending the precursor with a filler so that zirconia particles constitute from about 9 to about 20 percent by weight.
- 8 (Previously Presented). The method of claim 1 including forming a polymer from said blended precursor and zirconia particles.
- 9 (Previously Presented). A photodefinable polymer for semiconductor applications comprising:
 - a photodefinable polybenzoxazole precursor; and zirconia particles having a particle size of less than 100 nanometers.

Claims 10 and 11 (Canceled).

- 12 (Previously Presented). The polymer of claim 9 wherein said zirconia particles have a particle size of less than 20 nanometers.
- 13 (Previously Presented). The polymer of claim 9 wherein said zirconia particles have a particle size of about 13 nanometers.
- 14 (Previously Presented). The polymer of claim 9 wherein said zirconia particles comprise from about 9 to about 20 percent by weight.
- 15 (Previously Presented). A photodefinable polymer for semiconductor applications comprising:
- a photodefinable polybenzoxazole precursor; and zirconia particles comprising about 9 to about 20 percent of the system, said particles having a particle size of less than 20 nanometers.

Claims 16 and 17 (Canceled).

- 18 (Previously Presented). The polymer of claim 15 wherein said zirconia particles have a particle size of approximately 13 nanometers.
- 19 (Previously Presented). A polymer precursor for semiconductor applications comprising:

a photodefinable polybenzoxazole precursor; and zirconia particles having a particle size of less than 100 nanometers.

Claims 20 and 21 (Canceled).

22 (Previously Presented). The precursor of claim 19 wherein said zirconia particles have a particle size of less than 20 nanometers.

- 23 (Previously Presented). The precursor of claim 19 wherein said zirconia particles have a particle size of about 13 nanometers.
- 24 (Previously Presented). The precursor of claim 19 wherein said zirconia particles comprise about 9 to about 20 percent by weight.
 - 25 (Previously Presented). An integrated circuit comprising:
 - a substrate; and
- a photodefinable polymer formed on said substrate, said polymer including a photodefinable resin and zirconia particles having a particle size of less than 100 nanometers.

Claims 26 and 27 (Canceled).

- 28 (Previously Presented). The circuit of claim 25 wherein said zirconia particles have a particle size of less than 20 nanometers.
- 29 (Previously Presented). The circuit of claim 25 wherein said zirconia particles have a particle size of about 13 nanometers.
- 30 (Previously Presented). The circuit of claim 25 wherein said zirconia particles comprise from about 9 to about 20 percent by weight.